Lesson Title: Gen2 Sessions

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Reader Layer

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Sessions

• Tags have 4 session inventoried flags \{S0, S1, S2, S3\} with two states: A and B. At power-up the S0 flag shall be set to A. All other flags may be A or B.

• Different persistent times for inventoried flag
  – S0: persists with reader power; when no reader power it loses state
  – S1: Limited persistence when tag powered or not power (500 ms < t < 5 s). If not refreshed in time t, resets to state A
  – S2: Persist when powered and at least 2 seconds after losing power
  – S3: Persist when powered and at least 2 seconds after losing power

• Selected flag (SL)
  – Assert or deassert with a Select command
  – Query command inventories tags with either SL asserted or deasserted
Why sessions?

• Sessions help inventory performance
• Reader frequency hops and may count some of the same tags again.
• If use S2 or S3, tag remembers it was counted.
• Count tags twice. Count tags with S2 in state A, switch them to B, and then count tags with S2 in state B
• If need to count multiple times in short amount of time like a conveyor, use nonpersistent session like S0.

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